Yealink CT300 Datasheet

Device Navigator



The Yealink CT300 is a cutting-edge device navigator designed for comprehensive room management, offering effortless control, configuration, and monitoring of all in-room devices. With multiple versatile hardware interfaces, including RS232, Relay, and RS422/485, the CT300 supports extensive customization for tailored positioning and seamless integration. Its flexible automation capabilities provide intelligent, streamlined solutions for professional room environments.

Key Features and Benefits

Comprehensive Hardware Interfaces for Seamless Device Control

The Yealink CT300 features an extensive array of hardware interfaces—RS232, RS422/485, Relay, GPIO, IR learning, and IR out control—providing unmatched flexibility for device integration and control. Its versatile connectivity empowers seamless automation and precise management of diverse room devices, making it an ideal solution for professional AV environments.

Efficient Management with Dual Network Ports

With two network ports, the Yealink CT300 enables the separation of management and device control, ensuring

secure, efficient network traffic and better overall system performance.

Effortless Third-Party Integration via Open API

Yealink empowers seamless third-party device integration with its powerful Open API capabilities, enabling flexible and customized solutions.

Specifications

Hardware Interface

Parameter	Description
Hardware Overview	• 1 × PoE port • 1 × RJ45 port • 6 × RS232 port • 2 × RS422/485 port • 2 × IR out port • 4 × Relay port • 4 × GPIO in/out • 1 × IR Learning port • 1 × MGMT port • 1× 12V/2A power supply port
RS232	• 2 bidirectional RS232 ports • Baud Rate: 300~11520 baud • Pin configurations: Pin1=Tx, Pin2=Rx, Pin3=Gnd
RS422/485	• 2 bidirectional RS422/485 port • Baud Rate: 300~11520 baud • Pin configurations:RS422: Pin1=Tx+, Pin2=Rx+, Pin3=Gnd, Pin4=Tx-, Pin5=Rx- RS485: Pins 1 and 2 (tied together)=data+, pin3=Gnd, pins 4 and 5 (tied together)=data-
IR Out	• 2 IR output port • Carrier Frequency: 34kHz to 42 kHz • Pin configurations: Pin1=Tx, Pin2=Gnd
Relay	• 4 normally open relays • Rated: 30VDC, 2A • Pin configurations: Pin1=Common, Pin2=No

GPIO	• 4 analog input or digital input/digital output
	• Digital Inputs:
	  ◦ Input voltage range: 0 to 24VDC
	  ◦ Input impedance: 29k ohms
	  ◦ Programmable pullup: 1k ohms to +5VDC
	  ◦ Threshold low to high: Programmable range: 0~24VDC, default=2.8V
	  ◦ Threshold high to low: Programmable range: 0~24VDC, default=2V

	• Analog Inputs: 12bit A/D, 0 to 24VDC • Digital Outputs: 3.3 V, 3.3 mA • Pin Configurations: Pin1,2,3,4=GPIO In/Out, Pin5=Gnd, Pin6=12VDC
IR Learning	• Carrier Frequency: Below 38kHz • Capture Distance: Below 4m from the front panel

Power Supply

Parameter	Description
Power Consumption	• Average: 2.5 W • Peak: 3.3 W • Standby: 1.7 W

Installation

Parameter	Description
Installation Method	• Rack installation • Flat installation

Other Information

Parameter	Description
Package Contents	• 1 × CT300 • 1 × 3 m Cat5 cable • 1 × 1.0 m USB 3.0 Type-C to Type-A Cable (for management port) • 1 × Power adapter (12V / 2A) • 2 × Infrared Emitter (for IR output control) • Male phoenix connectors for control connection • 1 × Mounting Kit (for wall, flat surface, or rack installation). Includes mounting ears, rack connection piece, and screws • 1 × Quick start guide
Environmental Factors	• Operating humidity: 10% ~ 95% • Operating temperature: -10°C ~ +45°C • Storage temperature: -30°C ~ 70°C
Dimensions and Weight (W × D × H)	• Giftbox size: 259 × 193 × 124 mm • Carton size: 635 × 265 × 209 mm • Dimensions: 216 × 160 × 36.7 mm • G.W/CTN: 9.133 kg • N.W/CTN: 8.485 kg • Weight: 1.07 kg • Quantity/carton: 5 pcs